## INTERNATIONAL SEARCH REPORT

International application No.
PCT/JP2005/002139

	TION OF SUBJECT MATTER H02M3/28		; ii
According to Intern	national Patent Classification (IPC) or to both national of	classification and IPC	
B. FIELDS SEAF			
Minimum document Int.Cl <sup>7</sup>	ntation searched (classification system followed by class HO2M3/00-3/44, HO2M7/00-7/44,	sification symbols) H02J7/00-7/34	
Jitsuyo S Kokai Jit	suyo Shinan Koho 1971-2005 Tor	suyo Shinan Toroku Koho oku Jitsuyo Shinan Koho	1996-2005 1994-2005
Electronic data bas	e consulted during the international search (name of da	ta base and, where practicable, search to	ernis used)
C. DOCUMENT	S CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where app		Relevant to claim No.
x	JP 9-74748 A (Matsushita Electron, Ltd.), 18 March, 1997 (18.03.97), Par. Nos. [0023] to [0038]; F: (Family: none)		1-7
A	JP 2003-333843 A (Matsushita Industrial Co., Ltd.), 21 November, 2003 (21.11.03), Full text, all drawings (Family: none)	Electric	1-7
A	<pre>JP 2002-209339 A (Sony Corp.) 26 July, 2002 (26.07.02), Full text; all drawings (Family: none)</pre>		1-7
X Further doct	uments are listed in the continuation of Roy C	See patent family appex	
Special categories of cited documents:  A document defining the general state of the art which is not considered to be of particular relevance  E earlier application or patent but published on or after the international filing date  L document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)  O document referring to an oral disclosure, use, exhibition or other means document published prior to the international filing date but later than the priority date claimed		See patent family annex.  "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention  "X" document of particular relevance: the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone  "Y" document of particular relevance: the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art document member of the same patent family	
Date of the actual completion of the international search 18 May, 2005 (18.05.05)		Date of mailing of the international search report 07 June, 2005 (07.06.05)	
Name and mailing address of the IS.A/ Japanese Patent Office		Authorized officer	
Facsimile No.	) (second sheet) (January 2004)	Telephone No.	

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Category*	Citation of document, with indication, where appropriate, of the relevant	Relevant to claim No.	
A	JP 2001-95139 A (Yazaki Corp.), 06 April, 2001 (06.04.01), Full text; all drawings & US 6594129 B1		1-7
A	JP 2002-199715 A (Sanken Electric Co., L 12 July, 2002 (12.07.02), Full text; all drawings (Family: none)	otd.),	1-7
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